

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934531

Luminaire Tested: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934531
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

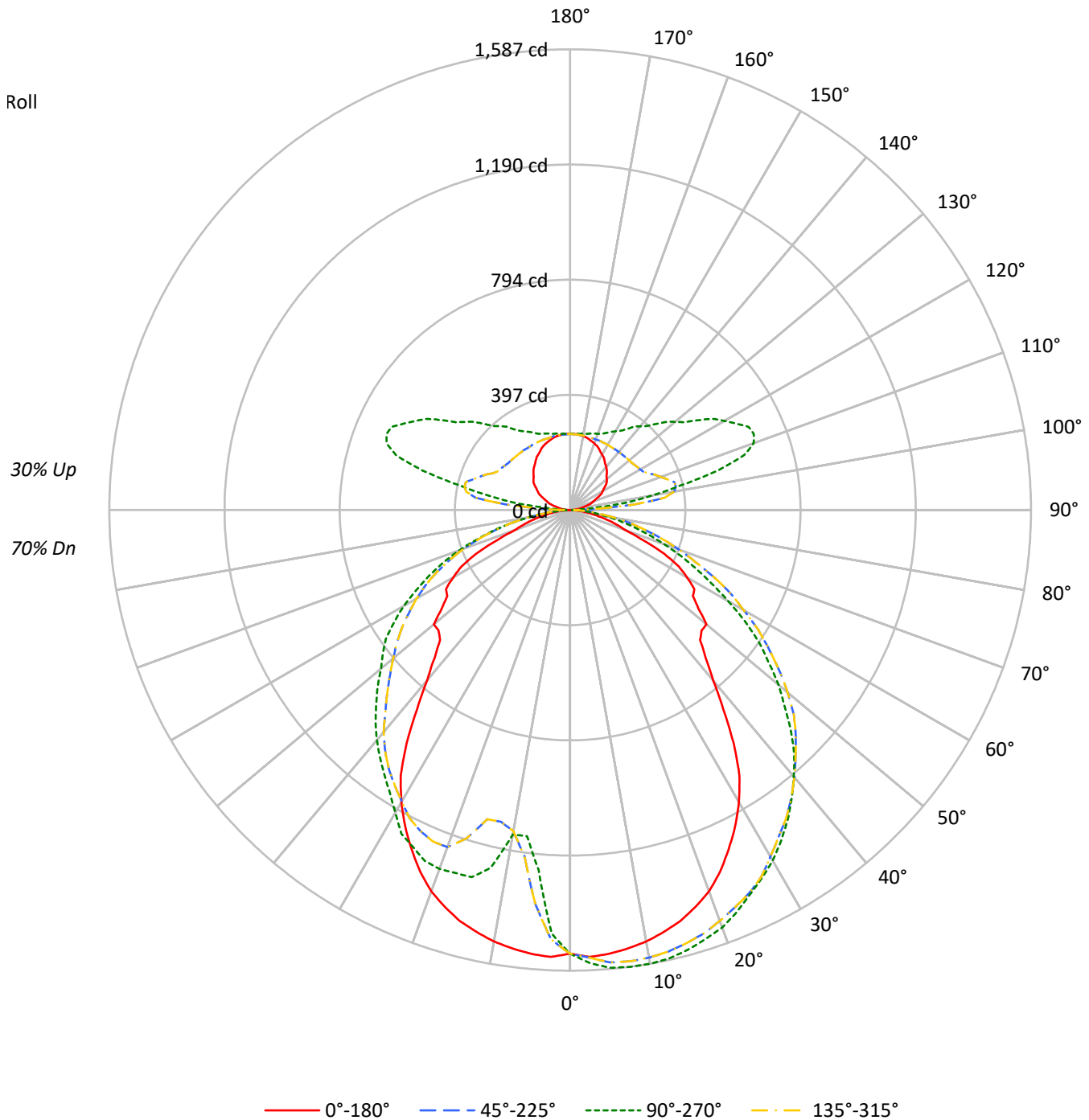
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5662.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14178	14178	14178	14178
5°	14267	14312	14267	11253
10°	14157	14097	14157	10079
15°	13987	13792	13987	11516
20°	13678	13431	13678	11541
25°	13064	12902	13064	11296
30°	12274	12464	12274	10760
35°	10927	11910	10927	10169
40°	9089	11258	9089	9723
45°	8105	10494	8105	9211
50°	8590	9583	8590	8696
55°	8062	8602	8062	8399
60°	8279	7306	8279	7692
65°	7471	6040	7471	6752
70°	5136	4813	5136	5658
75°	4457	3557	4457	4261
80°	3519	2352	3519	2560
85°	1913	1245	1913	1058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 12446 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	2.4
10°-20°	391.6	6.9
20°-30°	605.3	10.7
30°-40°	722.6	12.8
40°-50°	726.8	12.8
50°-60°	632.4	11.2
60°-70°	448.4	7.9
70°-80°	237.2	4.2
80°-90°	60.1	1.1
90°-100°	127.8	2.3
100°-110°	336.1	5.9
110°-120°	348.5	6.2
120°-130°	279.6	4.9
130°-140°	219.4	3.9
140°-150°	168.4	3.0
150°-160°	121.3	2.1
160°-170°	74.2	1.3
170°-180°	25.1	0.4
0°-30°	1134.8	20.0
0°-40°	1857.4	32.8
0°-60°	3216.7	56.8
0°-90°	3962.4	70.0
90°-120°	812.5	14.3
90°-150°	1479.9	26.1
90°-180°	1700.0	30.0
0°-180°	5662.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1528	1528	1528	1528	1528	
5°	1535	1583	1535	1244	1535	146
15°	1466	1568	1466	1310	1466	412
25°	1291	1463	1291	1281	1291	593
35°	982	1305	982	1114	982	607
45°	633	1075	633	944	633	507
55°	516	794	516	775	516	474
65°	358	478	358	535	358	343
75°	136	227	136	272	136	143
85°	23	58	23	49	23	31
90°	2	7	2	7	2	2
95°	17	77	17	77	17	19
105°	61	526	61	526	61	64
115°	108	678	108	678	108	106
125°	150	540	150	540	150	133
135°	178	419	178	419	178	138
145°	207	340	207	340	207	130
155°	234	293	234	293	234	107
165°	252	273	252	273	252	71
175°	262	264	262	264	262	25
180°	262	262	262	262	262	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1540.8	1540.8	1549.6	1552.5	1552.5	1548.1	1543.8	1548.1	1561.1	1565.4	1564.0
5°	1535.0	1546.7	1562.5	1565.4	1568.3	1566.9	1564.0	1566.9	1581.3	1584.2	1585.7
7.5°	1523.5	1545.2	1565.4	1569.8	1574.1	1569.8	1568.3	1571.3	1585.7	1588.6	1588.6
10°	1509.1	1539.4	1562.5	1565.4	1569.8	1565.4	1565.4	1571.3	1585.7	1588.6	1590.0
12.5°	1488.8	1530.8	1552.5	1555.3	1561.1	1559.6	1558.2	1564.0	1578.4	1581.3	1581.3
15°	1465.7	1514.9	1535.0	1537.9	1548.1	1545.2	1545.2	1551.0	1566.9	1571.3	1569.8
17.5°	1433.9	1494.6	1517.7	1522.1	1529.3	1527.9	1529.3	1535.0	1549.6	1552.5	1553.8
20°	1397.8	1467.1	1494.6	1498.9	1506.2	1506.2	1506.2	1513.4	1527.9	1533.7	1533.7
22.5°	1348.6	1438.3	1467.1	1470.0	1478.7	1478.7	1481.6	1491.7	1504.7	1506.2	1506.2
25°	1290.8	1406.4	1431.0	1439.7	1448.3	1452.7	1457.1	1462.8	1467.1	1465.7	1467.1
27.5°	1230.1	1365.9	1397.8	1403.5	1415.1	1419.5	1425.2	1426.6	1428.1	1432.5	1429.6
30°	1162.1	1309.5	1357.3	1363.1	1381.9	1384.7	1379.0	1381.9	1389.1	1392.0	1394.9
32.5°	1085.5	1225.8	1315.4	1328.3	1345.8	1337.1	1335.6	1340.0	1351.5	1351.5	1354.4
35°	981.5	1160.7	1276.3	1287.9	1300.9	1290.8	1296.6	1298.0	1305.3	1309.5	1308.2
37.5°	867.3	1104.3	1235.8	1244.5	1254.6	1241.6	1250.4	1254.6	1260.4	1257.5	1257.5
40°	766.1	1016.2	1188.2	1194.0	1202.6	1192.5	1201.2	1204.1	1207.0	1204.1	1202.6
42.5°	690.9	919.3	1137.6	1144.8	1139.0	1146.2	1149.1	1155.0	1150.6	1144.8	1144.8
45°	633.1	893.3	1082.6	1091.3	1082.6	1094.2	1098.6	1098.6	1085.5	1082.6	1081.2
47.5°	614.3	841.2	1027.7	1027.7	1023.4	1037.9	1045.0	1034.9	1022.0	1017.6	1017.6
50°	612.8	783.4	952.5	946.8	967.0	984.4	977.1	967.0	956.9	941.0	941.0
52.5°	556.5	712.6	855.8	877.4	909.2	919.3	907.8	897.6	880.3	873.1	867.3
55°	516.1	638.9	767.5	810.9	844.1	857.1	835.5	825.3	799.4	795.0	792.1
57.5°	507.4	532.0	686.6	741.6	782.0	780.6	767.5	748.7	727.0	722.8	721.3
60°	465.4	384.5	599.9	664.9	706.8	702.5	690.9	673.6	653.3	650.4	647.6
62.5°	422.1	279.0	501.5	575.3	634.5	633.1	623.0	597.0	582.5	575.3	569.5
65°	358.5	234.2	357.0	478.5	563.7	566.6	544.9	526.1	510.3	501.5	500.1
67.5°	273.2	190.8	241.4	399.0	495.8	492.9	465.4	456.8	436.5	432.2	423.6
70°	202.3	127.2	167.7	323.8	429.3	422.1	400.4	390.3	371.5	361.4	355.6
72.5°	167.7	102.7	122.8	251.5	361.4	352.7	333.9	322.3	306.5	297.7	291.9
75°	135.9	108.4	94.0	186.5	293.4	287.7	270.3	258.7	245.7	234.2	235.6
77.5°	99.8	101.2	75.2	137.3	232.7	224.0	214.0	199.4	193.7	182.1	182.1
80°	75.2	79.5	56.4	94.0	167.7	167.7	159.0	148.9	138.8	133.0	133.0
82.5°	50.6	50.6	41.9	59.3	114.2	109.8	104.0	101.2	95.4	92.5	92.5
85°	23.1	28.9	26.1	36.1	62.2	65.1	65.1	62.2	60.7	57.8	59.3
87.5°	7.3	13.0	15.9	20.2	31.8	33.2	34.7	34.7	34.7	36.1	36.1
90°	1.8	3.2	4.6	5.0	7.8	11.5	13.4	11.9	8.9	6.7	6.7
92.5°	7.0	19.0	31.0	34.0	47.7	66.1	75.3	66.0	47.4	33.5	32.1
95°	16.9	38.8	60.7	66.2	117.5	185.9	220.2	196.4	149.0	113.5	109.5
97.5°	29.2	48.5	67.8	72.7	158.3	272.5	329.5	314.6	284.6	262.1	254.4
100°	38.7	56.2	73.8	78.2	173.1	299.8	363.2	364.3	366.5	368.1	359.0
102.5°	46.8	63.2	79.5	83.6	180.0	308.4	372.7	391.8	430.0	458.6	450.7
105°	60.6	74.4	88.2	91.7	185.0	309.5	371.6	414.4	500.0	564.2	560.1
107.5°	74.7	87.5	100.4	103.7	185.9	295.7	350.5	410.2	529.6	619.2	620.2
110°	84.1	95.7	107.4	110.4	184.6	283.5	332.9	399.6	533.1	633.3	637.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.4	104.5	115.6	118.5	184.6	272.8	316.9	385.2	521.8	624.3	631.0
115°	107.5	117.8	128.0	130.6	186.3	260.5	297.7	363.4	495.1	593.8	603.1
117.5°	121.5	130.8	140.1	142.4	189.8	252.9	284.5	343.9	462.6	551.7	562.0
120°	129.6	138.4	147.1	149.3	192.6	250.3	279.2	333.5	442.0	523.4	533.5
122.5°	137.5	146.4	155.2	157.4	196.6	249.0	275.1	324.0	421.8	495.1	505.0
125°	149.6	157.7	165.7	167.8	202.1	247.9	270.8	312.3	395.3	457.6	466.7
127.5°	159.5	167.7	175.8	177.8	207.6	247.3	267.1	302.7	373.9	427.4	435.1
130°	164.8	173.6	182.3	184.5	211.6	247.6	265.6	297.4	360.9	408.4	415.5
132.5°	170.2	179.0	187.7	190.0	214.8	247.9	264.4	292.8	349.6	392.2	398.6
135°	178.3	186.3	194.3	196.3	218.3	247.6	262.3	286.0	333.6	369.3	374.8
137.5°	186.6	194.5	202.4	204.4	223.6	249.1	262.0	282.0	322.3	352.4	356.9
140°	193.5	200.7	208.1	209.9	226.8	249.4	260.7	278.1	312.9	338.9	343.1
142.5°	198.8	205.5	212.2	213.9	229.5	250.3	260.7	276.0	306.5	329.4	332.9
145°	206.9	212.7	218.6	220.0	233.0	250.3	259.0	271.4	296.4	315.1	317.8
147.5°	215.0	220.7	226.3	227.8	238.2	252.1	259.0	268.8	288.4	303.1	305.4
150°	220.2	225.3	230.5	231.8	240.9	252.9	259.0	267.3	283.8	296.3	298.2
152.5°	225.7	229.6	233.5	234.5	242.7	253.5	259.0	266.1	280.2	290.8	292.2
155°	233.8	236.7	239.6	240.3	246.5	254.8	259.0	264.6	275.9	284.3	285.3
157.5°	239.8	242.6	245.4	246.1	250.3	256.1	259.0	263.3	272.1	278.7	279.4
160°	243.9	246.0	248.2	248.7	252.1	256.7	259.0	262.7	270.2	275.9	276.2
162.5°	247.9	249.5	251.1	251.5	254.0	257.3	259.0	262.1	268.5	273.2	273.6
165°	252.3	253.8	255.3	255.6	256.8	258.2	259.0	261.2	265.7	269.1	269.5
167.5°	256.3	257.0	257.7	257.9	258.8	260.1	260.7	262.2	265.2	267.4	267.6
170°	259.0	259.7	260.3	260.5	260.6	260.7	260.7	262.2	265.2	267.4	267.4
172.5°	260.3	260.5	260.7	260.7	260.7	260.7	260.7	261.9	264.2	266.0	265.8
175°	262.3	262.3	262.3	262.3	261.8	261.0	260.7	261.4	263.0	264.1	264.1
177.5°	262.3	262.3	262.3	262.3	261.9	261.4	261.1	261.7	262.9	263.8	263.6
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1566.9	1562.5	1566.9	1564.0	1565.4	1561.1	1548.1	1543.8	1548.1	1552.5	1552.5
5°	1585.7	1582.8	1585.7	1585.7	1584.2	1581.3	1566.9	1564.0	1566.9	1568.3	1565.4
7.5°	1591.4	1587.1	1591.4	1588.6	1588.6	1585.7	1571.3	1568.3	1569.8	1574.1	1569.8
10°	1591.4	1587.1	1591.4	1590.0	1588.6	1585.7	1571.3	1565.4	1565.4	1569.8	1565.4
12.5°	1584.2	1581.3	1584.2	1581.3	1581.3	1578.4	1564.0	1558.2	1559.6	1561.1	1555.3
15°	1572.6	1568.3	1572.6	1569.8	1571.3	1566.9	1551.0	1545.2	1545.2	1548.1	1537.9
17.5°	1555.3	1549.6	1555.3	1553.8	1552.5	1549.6	1535.0	1529.3	1527.9	1529.3	1522.1
20°	1535.0	1530.8	1535.0	1533.7	1533.7	1527.9	1513.4	1506.2	1506.2	1506.2	1498.9
22.5°	1503.3	1498.9	1503.3	1506.2	1506.2	1504.7	1491.7	1481.6	1478.7	1478.7	1470.0
25°	1467.1	1462.8	1467.1	1467.1	1465.7	1467.1	1462.8	1457.1	1452.7	1448.3	1439.7
27.5°	1432.5	1429.6	1432.5	1429.6	1432.5	1428.1	1426.6	1425.2	1419.5	1415.1	1403.5
30°	1397.8	1394.9	1397.8	1394.9	1392.0	1389.1	1381.9	1379.0	1384.7	1381.9	1363.1
32.5°	1354.4	1351.5	1354.4	1354.4	1351.5	1351.5	1340.0	1335.6	1337.1	1345.8	1328.3
35°	1309.5	1305.3	1309.5	1308.2	1309.5	1305.3	1298.0	1296.6	1290.8	1300.9	1287.9
37.5°	1257.5	1253.2	1257.5	1257.5	1257.5	1260.4	1254.6	1250.4	1241.6	1254.6	1244.5
40°	1204.1	1198.3	1204.1	1202.6	1204.1	1207.0	1204.1	1201.2	1192.5	1202.6	1194.0
42.5°	1143.3	1141.9	1143.3	1144.8	1144.8	1150.6	1155.0	1149.1	1146.2	1139.0	1144.8
45°	1078.3	1075.4	1078.3	1081.2	1082.6	1085.5	1098.6	1098.6	1094.2	1082.6	1091.3
47.5°	1008.9	1001.7	1008.9	1017.6	1017.6	1022.0	1034.9	1045.0	1037.9	1023.4	1027.7
50°	935.2	936.6	935.2	941.0	941.0	956.9	967.0	977.1	984.4	967.0	946.8
52.5°	862.9	861.5	862.9	867.3	873.1	880.3	897.6	907.8	919.3	909.2	877.4
55°	790.7	793.6	790.7	792.1	795.0	799.4	825.3	835.5	857.1	844.1	810.9
57.5°	718.4	714.1	718.4	721.3	722.8	727.0	748.7	767.5	780.6	782.0	741.6
60°	634.5	628.8	634.5	647.6	650.4	653.3	673.6	690.9	702.5	706.8	664.9
62.5°	560.8	550.7	560.8	569.5	575.3	582.5	597.0	623.0	633.1	634.5	575.3
65°	482.8	478.5	482.8	500.1	501.5	510.3	526.1	544.9	566.6	563.7	478.5
67.5°	411.9	411.9	411.9	423.6	432.2	436.5	456.8	465.4	492.9	495.8	399.0
70°	346.9	345.5	346.9	355.6	361.4	371.5	390.3	400.4	422.1	429.3	323.8
72.5°	284.8	283.3	284.8	291.9	297.7	306.5	322.3	333.9	352.7	361.4	251.5
75°	229.8	226.9	229.8	235.6	234.2	245.7	258.7	270.3	287.7	293.4	186.5
77.5°	176.4	176.4	176.4	182.1	182.1	193.7	199.4	214.0	224.0	232.7	137.3
80°	131.5	130.1	131.5	133.0	133.0	138.8	148.9	159.0	167.7	167.7	94.0
82.5°	92.5	89.6	92.5	92.5	92.5	95.4	101.2	104.0	109.8	114.2	59.3
85°	57.8	57.8	57.8	59.3	57.8	60.7	62.2	65.1	65.1	62.2	36.1
87.5°	37.6	36.1	37.6	36.1	36.1	34.7	34.7	34.7	33.2	31.8	20.2
90°	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5	7.8	5.0
92.5°	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1	47.7	34.0
95°	93.4	77.3	93.4	109.5	113.5	149.0	196.4	220.2	185.9	117.5	66.2
97.5°	223.8	193.1	223.8	254.4	262.1	284.6	314.6	329.5	272.5	158.3	72.7
100°	322.4	285.9	322.4	359.0	368.1	366.5	364.3	363.2	299.8	173.1	78.2
102.5°	419.5	388.2	419.5	450.7	458.6	430.0	391.8	372.7	308.4	180.0	83.6
105°	543.2	526.4	543.2	560.1	564.2	500.0	414.4	371.6	309.5	185.0	91.7
107.5°	624.2	628.3	624.2	620.2	619.2	529.6	410.2	350.5	295.7	185.9	103.7
110°	655.1	672.6	655.1	637.6	633.3	533.1	399.6	332.9	283.5	184.6	110.4



TEST NUMBER: P934531

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	657.9	684.8	657.9	631.0	624.3	521.8	385.2	316.9	272.8	184.6	118.5
115°	640.4	677.8	640.4	603.1	593.8	495.1	363.4	297.7	260.5	186.3	130.6
117.5°	603.4	644.9	603.4	562.0	551.7	462.6	343.9	284.5	252.9	189.8	142.4
120°	573.6	613.9	573.6	533.5	523.4	442.0	333.5	279.2	250.3	192.6	149.3
122.5°	544.7	584.3	544.7	505.0	495.1	421.8	324.0	275.1	249.0	196.6	157.4
125°	503.2	539.7	503.2	466.7	457.6	395.3	312.3	270.8	247.9	202.1	167.8
127.5°	465.9	496.8	465.9	435.1	427.4	373.9	302.7	267.1	247.3	207.6	177.8
130°	444.1	472.5	444.1	415.5	408.4	360.9	297.4	265.6	247.6	211.6	184.5
132.5°	424.1	449.6	424.1	398.6	392.2	349.6	292.8	264.4	247.9	214.8	190.0
135°	396.8	418.8	396.8	374.8	369.3	333.6	286.0	262.3	247.6	218.3	196.3
137.5°	374.9	392.9	374.9	356.9	352.4	322.3	282.0	262.0	249.1	223.6	204.4
140°	359.9	376.8	359.9	343.1	338.9	312.9	278.1	260.7	249.4	226.8	209.9
142.5°	347.5	362.0	347.5	332.9	329.4	306.5	276.0	260.7	250.3	229.5	213.9
145°	328.8	339.8	328.8	317.8	315.1	296.4	271.4	259.0	250.3	233.0	220.0
147.5°	314.5	323.5	314.5	305.4	303.1	288.4	268.8	259.0	252.1	238.2	227.8
150°	305.5	312.9	305.5	298.2	296.3	283.8	267.3	259.0	252.9	240.9	231.8
152.5°	297.7	303.3	297.7	292.2	290.8	280.2	266.1	259.0	253.5	242.7	234.5
155°	289.0	292.6	289.0	285.3	284.3	275.9	264.6	259.0	254.8	246.5	240.3
157.5°	281.9	284.5	281.9	279.4	278.7	272.1	263.3	259.0	256.1	250.3	246.1
160°	277.8	279.2	277.8	276.2	275.9	270.2	262.7	259.0	256.7	252.1	248.7
162.5°	275.0	276.4	275.0	273.6	273.2	268.5	262.1	259.0	257.3	254.0	251.5
165°	271.0	272.6	271.0	269.5	269.1	265.7	261.2	259.0	258.2	256.8	255.6
167.5°	268.2	268.8	268.2	267.6	267.4	265.2	262.2	260.7	260.1	258.8	257.9
170°	267.4	267.4	267.4	267.4	267.4	265.2	262.2	260.7	260.7	260.6	260.5
172.5°	265.3	264.8	265.3	265.8	266.0	264.2	261.9	260.7	260.7	260.7	260.7
175°	264.1	264.1	264.1	264.1	264.1	263.0	261.4	260.7	261.0	261.8	262.3
177.5°	263.0	262.3	263.0	263.6	263.8	262.9	261.7	261.1	261.4	261.9	262.3
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934531

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1549.6	1540.8	1540.8	1526.4	1520.6	1516.2	1509.1	1487.4	1481.6	1475.8	1484.5
5°	1562.5	1546.7	1535.0	1509.1	1487.4	1478.7	1451.2	1399.2	1364.6	1338.5	1324.1
7.5°	1565.4	1545.2	1523.5	1483.0	1431.0	1407.9	1324.1	1228.7	1202.6	1179.5	1165.0
10°	1562.5	1539.4	1509.1	1448.3	1325.5	1285.0	1201.2	1139.0	1123.1	1118.8	1123.1
12.5°	1552.5	1530.8	1488.8	1387.6	1215.6	1188.2	1139.0	1102.9	1100.0	1107.2	1146.2
15°	1535.0	1514.9	1465.7	1306.7	1155.0	1134.7	1100.0	1087.0	1102.9	1153.5	1270.6
17.5°	1517.7	1494.6	1433.9	1227.2	1108.7	1094.2	1069.6	1095.7	1185.3	1253.2	1292.2
20°	1494.6	1467.1	1397.8	1169.4	1075.4	1062.4	1050.8	1167.9	1235.8	1260.4	1282.1
22.5°	1467.1	1438.3	1348.6	1128.9	1040.8	1030.6	1037.9	1208.4	1235.8	1253.2	1272.0
25°	1431.0	1406.4	1290.8	1097.1	1013.3	1001.7	1029.1	1204.1	1220.0	1224.3	1261.9
27.5°	1397.8	1365.9	1230.1	1068.2	980.0	975.7	1036.4	1185.3	1196.8	1201.2	1241.6
30°	1357.3	1309.5	1162.1	1037.9	945.3	943.9	1037.9	1162.1	1159.2	1170.8	1211.3
32.5°	1315.4	1225.8	1085.5	1000.3	912.1	910.7	1027.7	1127.4	1124.5	1140.4	1170.8
35°	1276.3	1160.7	981.5	956.9	870.2	871.6	1003.2	1087.0	1088.4	1102.9	1121.6
37.5°	1235.8	1104.3	867.3	909.2	829.7	829.7	969.9	1049.4	1046.5	1050.8	1076.9
40°	1188.2	1016.2	766.1	847.0	792.1	787.8	929.5	1008.9	998.8	997.4	1033.5
42.5°	1137.6	919.3	690.9	764.6	748.7	743.0	880.3	959.8	941.0	945.3	991.6
45°	1082.6	893.3	633.1	646.1	704.0	699.6	826.8	903.4	890.4	902.0	949.7
47.5°	1027.7	841.2	614.3	536.3	656.2	654.8	767.5	848.5	841.2	852.8	903.4
50°	952.5	783.4	612.8	459.7	602.8	608.6	696.7	795.0	795.0	805.1	858.6
52.5°	855.8	712.6	556.5	416.3	540.6	557.9	634.5	748.7	751.6	761.8	809.5
55°	767.5	638.9	516.1	383.1	466.9	504.4	573.9	701.1	706.8	717.0	760.3
57.5°	686.6	532.0	507.4	344.0	399.0	435.1	520.3	654.8	657.7	666.4	708.2
60°	599.9	384.5	465.4	302.1	339.7	367.1	471.2	599.9	610.0	615.7	651.9
62.5°	501.5	279.0	422.1	273.2	310.7	316.5	430.7	547.8	560.8	565.2	586.9
65°	357.0	234.2	358.5	248.6	280.4	281.9	387.3	494.4	505.9	513.2	529.0
67.5°	241.4	190.8	273.2	225.5	257.3	258.7	345.5	432.2	448.1	453.9	464.0
70°	167.7	127.2	202.3	200.9	231.3	234.2	300.7	375.8	390.3	394.6	400.4
72.5°	122.8	102.7	167.7	180.6	203.8	206.7	254.4	312.2	326.7	331.0	333.9
75°	94.0	108.4	135.9	157.6	173.5	174.9	208.2	254.4	264.5	267.4	268.9
77.5°	75.2	101.2	99.8	127.2	141.6	138.8	163.3	196.6	205.2	205.2	205.2
80°	56.4	79.5	75.2	91.1	104.0	101.2	117.1	140.2	143.1	146.0	144.5
82.5°	41.9	50.6	50.6	57.8	69.4	66.5	78.1	91.1	91.1	91.1	94.0
85°	26.1	28.9	23.1	30.3	39.0	37.6	43.4	49.1	50.6	50.6	47.7
87.5°	15.9	13.0	7.3	11.5	17.3	17.3	20.2	21.7	20.2	20.2	20.2
90°	4.6	3.2	1.8	3.2	4.6	5.0	7.8	11.5	13.4	11.9	8.9
92.5°	31.0	19.0	7.0	19.0	31.0	34.0	47.7	66.1	75.3	66.0	47.4
95°	60.7	38.8	16.9	38.8	60.7	66.2	117.5	185.9	220.2	196.4	149.0
97.5°	67.8	48.5	29.2	48.5	67.8	72.7	158.3	272.5	329.5	314.6	284.6
100°	73.8	56.2	38.7	56.2	73.8	78.2	173.1	299.8	363.2	364.3	366.5
102.5°	79.5	63.2	46.8	63.2	79.5	83.6	180.0	308.4	372.7	391.8	430.0
105°	88.2	74.4	60.6	74.4	88.2	91.7	185.0	309.5	371.6	414.4	500.0
107.5°	100.4	87.5	74.7	87.5	100.4	103.7	185.9	295.7	350.5	410.2	529.6
110°	107.4	95.7	84.1	95.7	107.4	110.4	184.6	283.5	332.9	399.6	533.1



TEST NUMBER: P934531

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	115.6	104.5	93.4	104.5	115.6	118.5	184.6	272.8	316.9	385.2	521.8
115°	128.0	117.8	107.5	117.8	128.0	130.6	186.3	260.5	297.7	363.4	495.1
117.5°	140.1	130.8	121.5	130.8	140.1	142.4	189.8	252.9	284.5	343.9	462.6
120°	147.1	138.4	129.6	138.4	147.1	149.3	192.6	250.3	279.2	333.5	442.0
122.5°	155.2	146.4	137.5	146.4	155.2	157.4	196.6	249.0	275.1	324.0	421.8
125°	165.7	157.7	149.6	157.7	165.7	167.8	202.1	247.9	270.8	312.3	395.3
127.5°	175.8	167.7	159.5	167.7	175.8	177.8	207.6	247.3	267.1	302.7	373.9
130°	182.3	173.6	164.8	173.6	182.3	184.5	211.6	247.6	265.6	297.4	360.9
132.5°	187.7	179.0	170.2	179.0	187.7	190.0	214.8	247.9	264.4	292.8	349.6
135°	194.3	186.3	178.3	186.3	194.3	196.3	218.3	247.6	262.3	286.0	333.6
137.5°	202.4	194.5	186.6	194.5	202.4	204.4	223.6	249.1	262.0	282.0	322.3
140°	208.1	200.7	193.5	200.7	208.1	209.9	226.8	249.4	260.7	278.1	312.9
142.5°	212.2	205.5	198.8	205.5	212.2	213.9	229.5	250.3	260.7	276.0	306.5
145°	218.6	212.7	206.9	212.7	218.6	220.0	233.0	250.3	259.0	271.4	296.4
147.5°	226.3	220.7	215.0	220.7	226.3	227.8	238.2	252.1	259.0	268.8	288.4
150°	230.5	225.3	220.2	225.3	230.5	231.8	240.9	252.9	259.0	267.3	283.8
152.5°	233.5	229.6	225.7	229.6	233.5	234.5	242.7	253.5	259.0	266.1	280.2
155°	239.6	236.7	233.8	236.7	239.6	240.3	246.5	254.8	259.0	264.6	275.9
157.5°	245.4	242.6	239.8	242.6	245.4	246.1	250.3	256.1	259.0	263.3	272.1
160°	248.2	246.0	243.9	246.0	248.2	248.7	252.1	256.7	259.0	262.7	270.2
162.5°	251.1	249.5	247.9	249.5	251.1	251.5	254.0	257.3	259.0	262.1	268.5
165°	255.3	253.8	252.3	253.8	255.3	255.6	256.8	258.2	259.0	261.2	265.7
167.5°	257.7	257.0	256.3	257.0	257.7	257.9	258.8	260.1	260.7	262.2	265.2
170°	260.3	259.7	259.0	259.7	260.3	260.5	260.6	260.7	260.7	262.2	265.2
172.5°	260.7	260.5	260.3	260.5	260.7	260.7	260.7	260.7	260.7	261.9	264.2
175°	262.3	262.3	262.3	262.3	262.3	262.3	261.8	261.0	260.7	261.4	263.0
177.5°	262.3	262.3	262.3	262.3	262.3	262.3	261.9	261.4	261.1	261.7	262.9
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934531

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1474.4	1470.0	1475.8	1459.9	1475.8	1470.0	1474.4	1484.5	1475.8	1481.6	1487.4
5°	1293.7	1286.5	1263.3	1244.5	1263.3	1286.5	1293.7	1324.1	1338.5	1364.6	1399.2
7.5°	1156.4	1150.6	1144.8	1133.3	1144.8	1150.6	1156.4	1165.0	1179.5	1202.6	1228.7
10°	1126.0	1127.4	1136.2	1134.7	1136.2	1127.4	1126.0	1123.1	1118.8	1123.1	1139.0
12.5°	1204.1	1217.0	1264.8	1261.9	1264.8	1217.0	1204.1	1146.2	1107.2	1100.0	1102.9
15°	1293.7	1298.0	1308.2	1309.5	1308.2	1298.0	1293.7	1270.6	1153.5	1102.9	1087.0
17.5°	1302.4	1303.8	1311.0	1311.0	1311.0	1303.8	1302.4	1292.2	1253.2	1185.3	1095.7
20°	1295.1	1298.0	1312.5	1315.4	1312.5	1298.0	1295.1	1282.1	1260.4	1235.8	1167.9
22.5°	1292.2	1298.0	1309.5	1308.2	1309.5	1298.0	1292.2	1272.0	1253.2	1235.8	1208.4
25°	1277.8	1277.8	1279.2	1280.7	1279.2	1277.8	1277.8	1261.9	1224.3	1220.0	1204.1
27.5°	1247.5	1250.4	1259.0	1257.5	1259.0	1250.4	1247.5	1241.6	1201.2	1196.8	1185.3
30°	1220.0	1217.0	1209.9	1204.1	1209.9	1217.0	1220.0	1211.3	1170.8	1159.2	1162.1
32.5°	1173.7	1166.5	1159.2	1155.0	1159.2	1166.5	1173.7	1170.8	1140.4	1124.5	1127.4
35°	1118.8	1120.2	1118.8	1114.5	1118.8	1120.2	1118.8	1121.6	1102.9	1088.4	1087.0
37.5°	1079.8	1082.6	1081.2	1075.4	1081.2	1082.6	1079.8	1076.9	1050.8	1046.5	1049.4
40°	1039.3	1040.8	1039.3	1034.9	1039.3	1040.8	1039.3	1033.5	997.4	998.8	1008.9
42.5°	1000.3	998.8	994.5	991.6	994.5	998.8	1000.3	991.6	945.3	941.0	959.8
45°	955.4	956.9	948.3	943.9	948.3	956.9	955.4	949.7	902.0	890.4	903.4
47.5°	910.7	910.7	903.4	899.1	903.4	910.7	910.7	903.4	852.8	841.2	848.5
50°	862.9	861.5	851.4	849.9	851.4	861.5	862.9	858.6	805.1	795.0	795.0
52.5°	808.0	808.0	809.5	812.4	809.5	808.0	808.0	809.5	761.8	751.6	748.7
55°	760.3	761.8	771.9	774.8	771.9	761.8	760.3	760.3	717.0	706.8	701.1
57.5°	711.1	711.1	718.4	718.4	718.4	711.1	711.1	708.2	666.4	657.7	654.8
60°	654.8	657.7	663.5	662.0	663.5	657.7	654.8	651.9	615.7	610.0	599.9
62.5°	595.5	598.4	599.9	597.0	599.9	598.4	595.5	586.9	565.2	560.8	547.8
65°	533.4	536.3	537.7	534.9	537.7	536.3	533.4	529.0	513.2	505.9	494.4
67.5°	469.8	468.3	466.9	472.7	466.9	468.3	469.8	464.0	453.9	448.1	432.2
70°	404.7	404.7	403.3	406.1	403.3	404.7	404.7	400.4	394.6	390.3	375.8
72.5°	335.3	333.9	339.7	335.3	339.7	333.9	335.3	333.9	331.0	326.7	312.2
75°	267.4	270.3	267.4	271.8	267.4	270.3	267.4	268.9	267.4	264.5	254.4
77.5°	203.8	206.7	203.8	203.8	203.8	206.7	203.8	205.2	205.2	205.2	196.6
80°	144.5	143.1	143.1	141.6	143.1	143.1	144.5	144.5	146.0	143.1	140.2
82.5°	92.5	91.1	91.1	94.0	91.1	91.1	92.5	94.0	91.1	91.1	91.1
85°	50.6	52.0	49.1	49.1	49.1	52.0	50.6	47.7	50.6	50.6	49.1
87.5°	18.8	17.3	17.3	17.3	17.3	17.3	18.8	20.2	20.2	20.2	21.7
90°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.9	11.9	13.4	11.5
92.5°	33.5	32.1	26.8	21.4	26.8	32.1	33.5	47.4	66.0	75.3	66.1
95°	113.5	109.5	93.4	77.3	93.4	109.5	113.5	149.0	196.4	220.2	185.9
97.5°	262.1	254.4	223.8	193.1	223.8	254.4	262.1	284.6	314.6	329.5	272.5
100°	368.1	359.0	322.4	285.9	322.4	359.0	368.1	366.5	364.3	363.2	299.8
102.5°	458.6	450.7	419.5	388.2	419.5	450.7	458.6	430.0	391.8	372.7	308.4
105°	564.2	560.1	543.2	526.4	543.2	560.1	564.2	500.0	414.4	371.6	309.5
107.5°	619.2	620.2	624.2	628.3	624.2	620.2	619.2	529.6	410.2	350.5	295.7
110°	633.3	637.6	655.1	672.6	655.1	637.6	633.3	533.1	399.6	332.9	283.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	624.3	631.0	657.9	684.8	657.9	631.0	624.3	521.8	385.2	316.9	272.8
115°	593.8	603.1	640.4	677.8	640.4	603.1	593.8	495.1	363.4	297.7	260.5
117.5°	551.7	562.0	603.4	644.9	603.4	562.0	551.7	462.6	343.9	284.5	252.9
120°	523.4	533.5	573.6	613.9	573.6	533.5	523.4	442.0	333.5	279.2	250.3
122.5°	495.1	505.0	544.7	584.3	544.7	505.0	495.1	421.8	324.0	275.1	249.0
125°	457.6	466.7	503.2	539.7	503.2	466.7	457.6	395.3	312.3	270.8	247.9
127.5°	427.4	435.1	465.9	496.8	465.9	435.1	427.4	373.9	302.7	267.1	247.3
130°	408.4	415.5	444.1	472.5	444.1	415.5	408.4	360.9	297.4	265.6	247.6
132.5°	392.2	398.6	424.1	449.6	424.1	398.6	392.2	349.6	292.8	264.4	247.9
135°	369.3	374.8	396.8	418.8	396.8	374.8	369.3	333.6	286.0	262.3	247.6
137.5°	352.4	356.9	374.9	392.9	374.9	356.9	352.4	322.3	282.0	262.0	249.1
140°	338.9	343.1	359.9	376.8	359.9	343.1	338.9	312.9	278.1	260.7	249.4
142.5°	329.4	332.9	347.5	362.0	347.5	332.9	329.4	306.5	276.0	260.7	250.3
145°	315.1	317.8	328.8	339.8	328.8	317.8	315.1	296.4	271.4	259.0	250.3
147.5°	303.1	305.4	314.5	323.5	314.5	305.4	303.1	288.4	268.8	259.0	252.1
150°	296.3	298.2	305.5	312.9	305.5	298.2	296.3	283.8	267.3	259.0	252.9
152.5°	290.8	292.2	297.7	303.3	297.7	292.2	290.8	280.2	266.1	259.0	253.5
155°	284.3	285.3	289.0	292.6	289.0	285.3	284.3	275.9	264.6	259.0	254.8
157.5°	278.7	279.4	281.9	284.5	281.9	279.4	278.7	272.1	263.3	259.0	256.1
160°	275.9	276.2	277.8	279.2	277.8	276.2	275.9	270.2	262.7	259.0	256.7
162.5°	273.2	273.6	275.0	276.4	275.0	273.6	273.2	268.5	262.1	259.0	257.3
165°	269.1	269.5	271.0	272.6	271.0	269.5	269.1	265.7	261.2	259.0	258.2
167.5°	267.4	267.6	268.2	268.8	268.2	267.6	267.4	265.2	262.2	260.7	260.1
170°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	265.2	262.2	260.7	260.7
172.5°	266.0	265.8	265.3	264.8	265.3	265.8	266.0	264.2	261.9	260.7	260.7
175°	264.1	264.1	264.1	264.1	264.1	264.1	264.1	263.0	261.4	260.7	261.0
177.5°	263.8	263.6	263.0	262.3	263.0	263.6	263.8	262.9	261.7	261.1	261.4
180°	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934531

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1509.1	1516.2	1520.6	1526.4	1540.8
5°	1451.2	1478.7	1487.4	1509.1	1535.0
7.5°	1324.1	1407.9	1431.0	1483.0	1523.5
10°	1201.2	1285.0	1325.5	1448.3	1509.1
12.5°	1139.0	1188.2	1215.6	1387.6	1488.8
15°	1100.0	1134.7	1155.0	1306.7	1465.7
17.5°	1069.6	1094.2	1108.7	1227.2	1433.9
20°	1050.8	1062.4	1075.4	1169.4	1397.8
22.5°	1037.9	1030.6	1040.8	1128.9	1348.6
25°	1029.1	1001.7	1013.3	1097.1	1290.8
27.5°	1036.4	975.7	980.0	1068.2	1230.1
30°	1037.9	943.9	945.3	1037.9	1162.1
32.5°	1027.7	910.7	912.1	1000.3	1085.5
35°	1003.2	871.6	870.2	956.9	981.5
37.5°	969.9	829.7	829.7	909.2	867.3
40°	929.5	787.8	792.1	847.0	766.1
42.5°	880.3	743.0	748.7	764.6	690.9
45°	826.8	699.6	704.0	646.1	633.1
47.5°	767.5	654.8	656.2	536.3	614.3
50°	696.7	608.6	602.8	459.7	612.8
52.5°	634.5	557.9	540.6	416.3	556.5
55°	573.9	504.4	466.9	383.1	516.1
57.5°	520.3	435.1	399.0	344.0	507.4
60°	471.2	367.1	339.7	302.1	465.4
62.5°	430.7	316.5	310.7	273.2	422.1
65°	387.3	281.9	280.4	248.6	358.5
67.5°	345.5	258.7	257.3	225.5	273.2
70°	300.7	234.2	231.3	200.9	202.3
72.5°	254.4	206.7	203.8	180.6	167.7
75°	208.2	174.9	173.5	157.6	135.9
77.5°	163.3	138.8	141.6	127.2	99.8
80°	117.1	101.2	104.0	91.1	75.2
82.5°	78.1	66.5	69.4	57.8	50.6
85°	43.4	37.6	39.0	30.3	23.1
87.5°	20.2	17.3	17.3	11.5	7.3
90°	7.8	5.0	4.6	3.2	1.8
92.5°	47.7	34.0	31.0	19.0	7.0
95°	117.5	66.2	60.7	38.8	16.9
97.5°	158.3	72.7	67.8	48.5	29.2
100°	173.1	78.2	73.8	56.2	38.7
102.5°	180.0	83.6	79.5	63.2	46.8
105°	185.0	91.7	88.2	74.4	60.6
107.5°	185.9	103.7	100.4	87.5	74.7
110°	184.6	110.4	107.4	95.7	84.1



TEST NUMBER: P934531

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	184.6	118.5	115.6	104.5	93.4
115°	186.3	130.6	128.0	117.8	107.5
117.5°	189.8	142.4	140.1	130.8	121.5
120°	192.6	149.3	147.1	138.4	129.6
122.5°	196.6	157.4	155.2	146.4	137.5
125°	202.1	167.8	165.7	157.7	149.6
127.5°	207.6	177.8	175.8	167.7	159.5
130°	211.6	184.5	182.3	173.6	164.8
132.5°	214.8	190.0	187.7	179.0	170.2
135°	218.3	196.3	194.3	186.3	178.3
137.5°	223.6	204.4	202.4	194.5	186.6
140°	226.8	209.9	208.1	200.7	193.5
142.5°	229.5	213.9	212.2	205.5	198.8
145°	233.0	220.0	218.6	212.7	206.9
147.5°	238.2	227.8	226.3	220.7	215.0
150°	240.9	231.8	230.5	225.3	220.2
152.5°	242.7	234.5	233.5	229.6	225.7
155°	246.5	240.3	239.6	236.7	233.8
157.5°	250.3	246.1	245.4	242.6	239.8
160°	252.1	248.7	248.2	246.0	243.9
162.5°	254.0	251.5	251.1	249.5	247.9
165°	256.8	255.6	255.3	253.8	252.3
167.5°	258.8	257.9	257.7	257.0	256.3
170°	260.6	260.5	260.3	259.7	259.0
172.5°	260.7	260.7	260.7	260.5	260.3
175°	261.8	262.3	262.3	262.3	262.3
177.5°	261.9	262.3	262.3	262.3	262.3
180°	262.3	262.3	262.3	262.3	262.3



TEST NUMBER: P934531
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.67	16.75	16.44	17.54	18.49	18.47	19.55	19.24	20.33	21.29
	3H	16.17	17.13	16.94	17.93	18.91	19.82	20.79	20.60	21.58	22.57
	4H	16.37	17.28	17.16	18.08	19.08	20.27	21.18	21.07	21.99	22.98
	6H	16.50	17.34	17.31	18.15	19.16	20.56	21.40	21.37	22.21	23.22
	8H	16.51	17.31	17.32	18.14	19.15	20.63	21.43	21.45	22.27	23.28
	12H	16.48	17.25	17.31	18.07	19.11	20.68	21.44	21.50	22.26	23.30
4H	2H	16.72	17.63	17.52	18.44	19.44	18.91	19.82	19.71	20.62	21.62
	3H	17.77	18.53	18.58	19.37	20.38	20.42	21.18	21.24	22.02	23.03
	4H	18.06	18.75	18.88	19.58	20.62	20.95	21.64	21.78	22.48	23.52
	6H	18.19	18.79	19.04	19.65	20.70	21.32	21.92	22.17	22.78	23.83
	8H	18.20	18.76	19.05	19.62	20.68	21.43	21.99	22.28	22.85	23.90
	12H	18.18	18.68	19.05	19.56	20.62	21.49	21.99	22.36	22.87	23.93
8H	4H	18.52	19.08	19.37	19.94	20.99	21.10	21.65	21.94	22.51	23.57
	6H	18.79	19.25	19.67	20.15	21.21	21.53	22.00	22.41	22.89	23.95
	8H	18.84	19.25	19.72	20.14	21.22	21.68	22.09	22.57	22.99	24.06
	12H	18.83	19.19	19.72	20.08	21.21	21.78	22.15	22.67	23.03	24.16
12H	4H	18.54	19.04	19.40	19.92	20.98	21.07	21.57	21.94	22.45	23.51
	6H	18.85	19.26	19.74	20.16	21.23	21.53	21.94	22.42	22.84	23.91
	8H	18.93	19.29	19.82	20.18	21.30	21.70	22.06	22.59	22.95	24.07